

APPENDIX G: REFERENCES AND RESOURCES

General Resources

The ISO 14000 Handbook, edited by Joseph Cascio, Chairman, US Technical Advisory Group to ISO/TC 207, CEEM Information Services, Fairfax, Virginia, 1996.

Environmental Management Systems: An Implementation Guide for Small and Medium-Sized Organizations, NSF International, Ann Arbor, Michigan, November 1996.

Developed with funding through a cooperative agreement with the U. S. EPA, Office of Wastewater Management and Office of Enforcement and Compliance Assurance.

EPA Position Statement on Environmental Management. Federal Register: March 12, 1998 (Volume 63, Number 48), pp. 12094-12097.

Design for the Environment, Building Partnerships for Environmental Improvement, Design for the Environment, U. S. EPA, EPA/600/K-95/002, September 1995.

Federal Environmental Regulations Potentially Affecting the Commercial Printing Industry, Design for the Environment, U. S. EPA, EPA744B-94-001, March 1994.

“Compliance-Focused Environmental Management System — Enforcement Agreement Guidance,” EPA-330/9-97-002R, U. S. EPA, Office of Criminal Enforcement, Forensics and Training, August 1997, Revised January 2000.

“Improving Environmental Performance and Compliance: Ten Elements of Effective Compliance Systems.” Enforcement Cooperative Program of the Commission for Environmental Cooperation, June 2000. (www.cec.org)

Government Printing Office (GPO)

The GPO website provides links to the full text of the Code of Federal Regulations (CFR), Federal Register notices for the past several years, and other resources.

Website: www.access.gpo.gov/nara/

The Clean Air Technology Center (CATC)

A source of general information on air emissions-related technology.

Telephone: 919-541-0800

Website: www.epa.gov/ttn/catc

The RCRA, Superfund & EPCRA Hotline offers information and publications that are relevant to RCRA.

Telephone: 800-424-9346

Website: www.epa.gov/epaoswer/hotline

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The Office of Water

The Office of Water, especially the Office of Wastewater Management, can be contacted for information on Clean Water Act provisions that relate to the printing industry.

Telephone: 202-260-5700

Website: www.epa.gov/OW

The Safe Drinking Water Hotline can provide information on issues related to the Safe Drinking Water Act.

Telephone: 800-426-4791

Website: www.epa.gov/OGWDW/

The Superfund Website provides general information on CERCLA.

Website: www.epa.gov/superfund

The Chemical Emergency Preparedness and Prevention Office website offers information on the emergency response aspects of EPCRA, which are administered under the Chemical Emergency Preparedness and Prevention Office.

Website: www.epa.gov/swercepp/

The Toxics Release Inventory website provides information on the Toxics Release Inventory reporting requirements, which are implemented by the Office of Pollution Prevention and Toxics.

Website: www.epa.gov/opptintr/tri/index.html

The Occupational Safety and Health Administration (OSHA) website provides information on the Occupational Safety and Health Act, OSHA regulations, standards, interpretations, and other information.

Website: www.osha.gov/

Technical Resources

Cleaner Technologies Substitutes Assessment, A Methodology & Resource Guide, Design for the Environment, U. S. EPA, EPA744-R 95-002, December 1996.

Cleaner Technologies Substitutes Assessment, Industry: Screen Printing; Use Cluster: Screen Reclamation, Design for the Environment, U. S. EPA, EPA744-R-94-005, September 1994.

Information on developing a Cause and Effect (Fishbone) Diagram is available at: www.sytsma.com/tqmttools/cause.html

Cost Resources

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Journal Articles/Publications

Aldrich, James. R., 2000. "P2 and the Bottom Line – Choosing Variables: What Factors Should You Include when Analyzing the Value of a P2 Project?" *Pollution Prevention Review*. John Wiley & Sons, Inc. Summer.

Aldrich, James. R., 1999. "P2 and the Bottom Line – Net Present Value," *Pollution Prevention Review*. John Wiley & Sons, Inc. Summer.

Aldrich, James. R., 1999. "P2 and the Bottom Line – Internal Rate of Return," *Pollution Prevention Review*. John Wiley & Sons, Inc. Spring.

Aldrich, James. R., 1998. "P2 and the Bottom Line – Depicting Financial Impacts Over Time," *Pollution Prevention Review*. John Wiley & Sons, Inc. Autumn.

Aldrich, James. R., 1998. "P2 and the Bottom Line – The Time Value of Money," *Pollution Prevention Review*. John Wiley & Sons, Inc. Summer.

Kennedy, Mitchel, 1998. "Critical Issues of Total Cost Assessment: Gathering Environmental Cost Data for P2," *Pollution Prevention Review*. John Wiley & Sons, Inc. Spring.

Pojasek, Robert B., 1998. "Practical Pollution Prevention – Activity-Based Costing for EHS Improvement," *Pollution Prevention Review*. John Wiley & Sons, Inc. Winter.

Pojasek, Robert B., 1997. "Understanding a Process with Process Mapping," *Pollution Prevention Review*. John Wiley & Sons, Inc. Summer.

U.S. EPA, 1995. *An Introduction to Environmental Accounting as a Business Management Tool: Key Concepts and Terms* (EPA 742-R-95-001).

White, Allen L., Becker, M., and Savage, D., 1993. "Environmentally Smart Accounting: Using Total Cost Assessment to Advance Pollution Prevention," *Pollution Prevention Review*. John Wiley & Sons, Inc. Summer.

Software Tools

P2/FINANCE (Pollution Prevention/Financial Analysis Cost Evaluation System) This software provides spreadsheets (Microsoft Excel) for evaluating the profitability of pollution prevention and other types of projects. It can be downloaded free of charge from EPA's web site: www.epa.gov/opptintr/acctg

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E2/FINANCE (Energy and Environment /Financial Analysis Cost Evaluation System)

This software is useful for evaluating the profitability of energy efficiency, pollution prevention and other types of projects. It can be downloaded free of charge from Tellus Institute's web site: www.tellus.org

Web Sites

The US EPA Environmental Accounting Project web site (www.epa.gov/opptintr/acctg) contains case studies and other documents.

Other Resources

Design for the Environment Printing Project, Lithography Case Study 1, Managing Solvents and Wipes. U. S. EPA, EPA 744-K-93/001, October 1995.

Designing Solutions for Screen Printers, An Evaluation of Screen Reclamation Systems, Design for the Environment, U. S. EPA, EPA744-F-96-010, September 1996.

Solutions for Lithographic Printers, An Evaluation of Substitute Blanket Washes, Design for the Environment, U. S. EPA, EPA744-F-96-009, September 1997.

EMS Gap Analysis, The Lexington Group, Environmental Management Consultants, Inc., ©1997.

For a full list of DfE Program publications, contact EPA's Pollution Prevention Information Center, 1200 Pennsylvania Ave., N.W. (7409), Washington, DC 20460.

Phone: 202/260-1023; Fax: 202/260-4659

E-mail: ppic@epa.gov

<http://www.epa.gov/opptintr/library/ppicdist.html>

DfE website: <http://www.epa.gov/dfe>

The John Roberts Company

9687 East River Road

Minneapolis, MN 55433

(612) 755-0394

Ecological Benefits Assessment Model (EBAM)

What does EBAM do?

- ▶ Estimates the ecological benefits of risk management alternatives in economic terms.
- ▶ Estimates the dollar value of the ecological benefits of risk management alternatives on recreational fishing.
- ▶ Estimates the dollar value of environmental damages.

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Technical Contact:

Lynne Blake-Hedges
U.S. Environmental Protection Agency
401 M Street, S.W. (7406)
Washington, D.C. 20460
Phone: 202-260-7241
E-mail: blake-hedges.lynne@epa.gov

Chemical Screening Tool for Exposure and Environmental Release (ChemSTEER)

What does ChemSTEER do?

- ▶ Estimates occupational inhalation and dermal exposures during chemical manufacturing, processing, and use activities.
- ▶ Estimates chemical releases to air, water, and land that are associated with chemical manufacturing, processing, and use.

For more information about the tool, contact:

Scott Prothero
U.S. Environmental Protection Agency
401 M Street, S.W. (7406)
Washington, D.C. 20460
Phone: 202-260-1566
E-mail: prothero.scott@epa.gov

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Use Cluster Scoring System

What does the UCSS do?

- ▶ The Use Cluster Scoring System (UCSS) is a computer-based, risk-screening system with information about nearly 3,200 chemicals in the 380 clusters — or families — into which these chemicals are grouped. For example, instead of considering a single chemical that happens to be a paint stripper, the cluster of chemicals that perform as paint strippers is considered.
- ▶ The UCSS accesses hazard and exposure data that are extracted from the Toxics Release Inventory (TRI), the Integrated risk Information System (IRIS), and other readily accessible risk assessment related databases.
- ▶ The UCSS then uses a simple system to score and rank chemicals and their respective clusters. The program was developed to identify clusters of chemicals of potential concern to EPA.

For additional information about the Use Cluster Scoring System, contact:

Franklyn Hall

U.S. Environmental Protection Agency

OPPT, Economics, Exposure & Technology Division

401 M Street, S.W. (7406)

Washington, D.C. 20460

Phone: 202-260-9596

E-mail: hall.franklyn@epa.gov

Graphical Exposure Modeling System (GEMS)

What does GEMS do?

- ▶ GEMS will connect outdoor air, surface water, soil, groundwater, and multimedia models with some of the environmental and population data needed to run the models.
- ▶ GEMS will estimate environmental concentrations in a variety of environmental media.
- ▶ GEMS will have graphics capabilities for displaying data and environmental modeling results.

For more information about the model, contact:

Lynn Delphire

U.S. Environmental Protection Agency

401 M Street, S.W.

Washington, D.C. 20460

Phone: 202-260-3928

E-mail: delphire.lynn@epamail.gov

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Exposure, Fate Assessment Screening Tool (E-FAST)

What does E-FAST do?

- ▶ Provides screening-level estimates of the concentrations of chemicals released to air, surface water, landfills, and from consumer products.
- ▶ Estimates potential inhalation and ingestion dose rates resulting from these releases.
- ▶ Modeled results, estimates of concentrations and doses, are designed to be conservative.

For more information about the model, contact:

Tom Brennan

U.S. Environmental Protection Agency

401 M Street, S.W. (7406)

Washington, D.C. 20460

Phone: 202-260-3920

E-mail: brennan.thomas@epamail.gov